HOTMAC-related Publications

Mellor and Yamada, 1974, A hierarchy of turbulent-closure models for planetary boundary layer, JAS.

Yamada and Mellor, 1975, A simulation of the Wangara ABL data, JAS.

Yamada, The Critical Richardson Number and the Ratio of the Eddy Transport Coefficients Obtained from a Turbulence Closure Model, , J. Atmos. Sci., Vol. 32, pp.926-933. 1975.

Mellor and Yamada, 1979, A numerical simulation of BOMEX data using a turbulence closure model coupled with ensemble cloud relations, QJRMS.

Yamada, 1981, A numerical simulation of nocturnal drainage flow, J. Met. Soc. Jap.

Mellor and Yamada, 1982, Development of a turbulence closure model for geophysical fluid problems, Rev. Geophy. & Space Phys.

Yamada, T. (1982) A numerical study of turbulent airflow in and above a forest canopy, J. Met . Soc. Japan 60, 439-454

Yamada, T., "Simulations of nocturnal drainage flows by a q2l turbulence closure model", J. Atm. Sci., 40(1): 91-106 (1983).

Yamada T. and J. Kao, "A modeling study on the fair weather marine boundary layer of the GATE," J. Atm. Sci. 43, 3186-3199 (1986).

Yamada and Bunker, 1988, Development of a nested grid, second moment turbulence closure model and application to the 1982 ASCOT Brush Creek data simulation, JAM.

Williams, Yamada, Bunker, Niccum, 1989, The LANL atmospheric transport and diffusion models: users manual, LANL report.

Kao and Yamada, 1989, Numerical simulations of a stratocumulus-capped boundary layer observed over land, JAS.

Yamada, T. and S. Bunker, "A numerical model study of nocturnal drainage flows with strong wind and temperature gradients", J. Appl. Meteor., 28: 545-554 (1989).

Yamada, T., J. Kao, and S. Bunker (1989) Airflow and air quality simulations over the western mountainous region with a 4-d data assimilation technique, At. Env., v23, p 539.

Williams, M. and T. Yamada (1990) A microcomputer-based forecasting model: potential applications for emergency response plans and air quality studies, J. Air Waste Manage. Assoc., v40, 1266-1274.

Williams, M., Brown, M., Cruz, X., Sosa, G. & Streit, G., Development and testing of meteorology and air dispersion models for Mexico City, *Atmos. Env.*, **29**, pp. 2929-2960, 1995.

Brown and Williams, 1995: *Plume dispersion sensitivity to upper-level wind variations in a Chilean coastal environment*, AWMA Conf, Nashville, TN.

Williams and Brown, 1997: An exploration of measures for comparing measurements with the results from meteorological models for Mexico City, Chemometrics & Intell. Lab. Syst., 37, p 81.

Brown, M. & Muller, C., The effect of microscale urban canyon flow on mesoscale puff dispersion, *AMS 12th Symp. Bound. Layers & Turb.*, Vancouver, BC, 1997.

Brown, M. and M. Williams (1997) The effect of urban canopy parameterizations on mesoscale meteorological model simulations in the Paso del Norte area, AWMA 90th Ann.Conf., Toronto.

Brown, M. and M. Williams: *An urban canopy parameterization for mesoscale meteorological models*, AMS 2nd Urban Env. Symp., Albuquerque, NM, 1998.

Brown, Müller, and Stretz, 1998: *Exposure estimates using urban plume dispersion and traffic micro-simulation models*. AMS 10th Conf. on Air Pollution Meteorology, Phoenix, AZ.

Brown, M., S. Burian, T. McPherson, G. Streit, K. Costigan, and B. Greene, "Pollutant transfer through air and water pathways in an urban environment", *2nd AMS Urban Env. Symp.*, Albuquerque, NM (1998).

Brown, Costigan, Muller, and Wang, 1999: Meteorological simulations of ozone episode case days during the 1996 Paso del Norte Ozone Study, AWMA Conf., St. Louis, MI.

Brown, Muller, Wang, and Costigan, 2000: Meteorological simulations of boundary-layer structure during the 1996 Paso del Norte Ozone Study, submitted to Sci. of the Total Env.